

In The Claims

Please amend the claims as follows:

1-33. (Canceled).

34. (Currently amended) A method of irradiating an article using a pair of radiation sources disposed on opposite sides of the article, with an wherein a cumulative amount of radiation in the article is between first and second limits where the second limit is greater than the first limit and where the first and second limits are greater than zero, including the steps of:

directing radiation to the article from radiation sources disposed on opposite sides of the article,

determining whether the article will be receiving ~~an~~ a cumulative amount of radiation between the first limit and the second limit,

directing the radiation to the article when it is determined that the cumulative amount of radiation in the article will be between the first limit and the second limit, and

reducing the intensity of the radiation directed to the article, when it is determined that the cumulative amount of radiation in the article will be above the second limit, so that the reduced amount of radiation directed to the article will be between the first limit and the second limit.

35. (Currently amended) A method as set forth in claim 34 wherein ~~the radiation is directed only from a single position and wherein~~

the intensity of the radiation directed to the article ~~from the single position~~ is reduced, when it is determined that the cumulative amount of radiation will be above the second limit, so that the reduced cumulative amount of the radiation ~~directed from the single position will be~~ is between the first limit and the second limit.

36-46. (Canceled)

47. (Currently amended) A system for irradiating an article ~~with an amount of radiation~~, comprising

a ~~radiation source~~ pair of radiation sources disposed on opposite sides of the article for irradiating the article, and

a microprocessor for determining whether the intensity of ~~the~~ a cumulative amount of radiation of the article will be between a first limit and a second limit where the first and second limits are different from zero and where the second limit is greater than the first limit, and

a member responsive to the determination by the microprocessor for reducing the intensity of the cumulative amount of radiation ~~from the source~~ to a value between the first limit and the second limit when the microprocessor determines that the intensity of the radiation of the article will be greater than the second limit.

48. (Currently amended) A system as set forth in claim 47 wherein the microprocessor does not provide for a reduction in the intensity of the

cumulative amount of radiation ~~irradiation~~ of the article ~~by the source~~ when the microprocessor determines that the intensity of the cumulative amount of radiation ~~irradiation~~ is between the first and second limits.

49. (Canceled)

50. (Canceled)